



**GPS** 

#### **Ground Penetrating Radar Array**

Measures underneath the surface to determine the thickness of each pavement layer.

#### Tire Pressure Sensor - Driver Side

Measures International Roughness Index (IRI), an ASTM standard related to how safe and comfortable a road is to drive on. A second tire pressure sensor is installed on the passenger side of the vehicle.

#### Microphone - Driver Side

Measures Mean Texture Depth (MTD), an ASTM standard related to road texture and friction. A second microphone is installed on the passenger side of the vehicle.

#### Rear Camera

Detects cracks. The types of cracks (e.g. alligator, longitudinal, transverse) and their severity.

#### Surface Radar Array

Detects larger scale distresses like potholes, rutting, bumps, and depressions. Additionally, detects the material of the driving surface such as pavement, gravel, water, or metal (e.g. manholes, drainage, expansion joints).

## **Roadway Evaluations**

276 Miles of Road

201 Miles of Local Roads

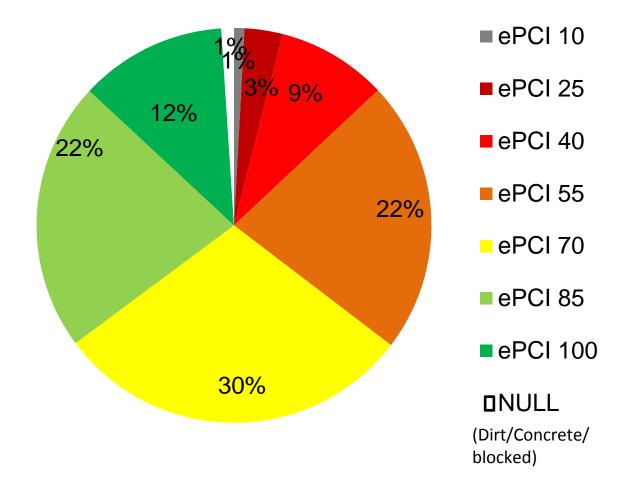
75 Miles of Arterial & Collector Roads

# Pavement Condition Index (PCI)



## Distribution of PCI

Average PCI	62.5
% < Critical PCI (55)	35%
% > Critical PCI (55)	65%



## Current average PCI for 201 Miles of Local Roads is 59.3

PCI 50 -59

Avondale Road - 55

Marshall Street - 50





### Current average PCI for 75 Miles of Arterial & Collector Roads is 69.5

#### PCI 60-69

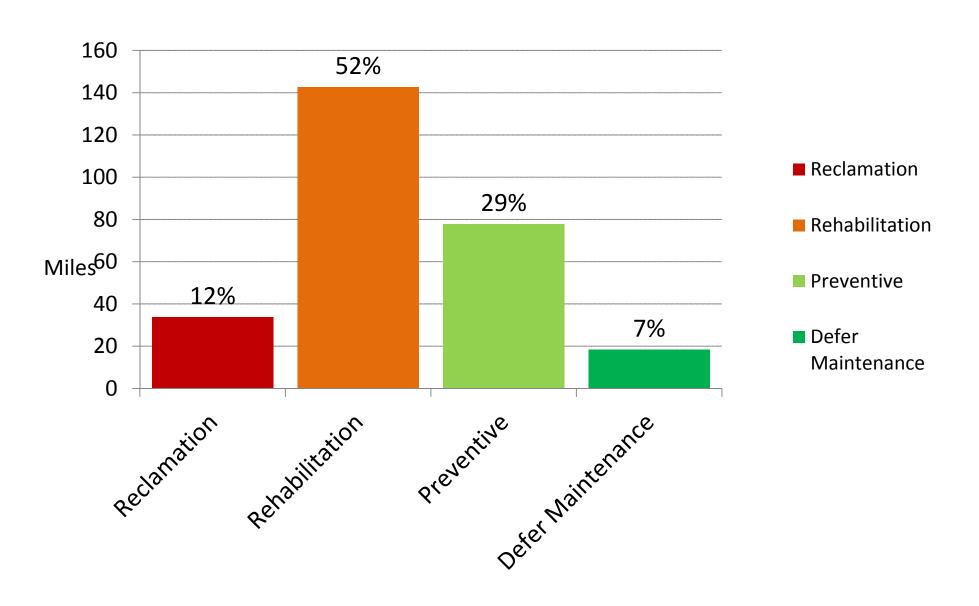
Kenilworth Street - 60

Parsons Street - 65





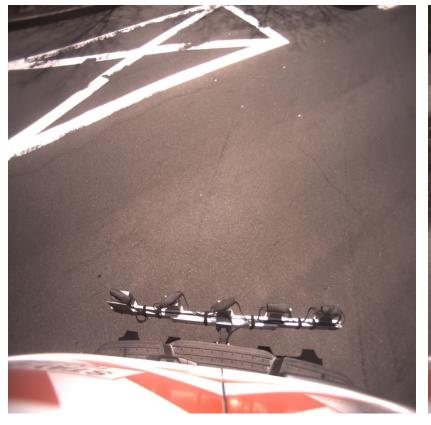
# Breakdown by Repair Type



## PCI 80 -89

Valentine Street

Allen Avenue





## PCI 70 - 79

Allen Avenue

Allen Avenue

